

## List of Materials

### General Supplies

- Tape, glue, rubber bands
- scissors and (or) single-edge razor blades
- grease pencil or water soluble markers
- shoe box
- 3" × 5" note cards
- aluminum foil
- sheet of thin cardboard and of corrugated cardboard
- glass or clear plastic jar with lid
- ruler or meter stick, protractor
- straight pins
- six-sided die

### Activity 1

- 2 cm × 2 cm square of holographic or regular diffraction grating
  - $\frac{1}{2}$  sheet of regular graph paper, 10 squares per cm
- optional "The Spectra of the Stars" slide set
- optional Preassembled units for spectroscope

### Activity 2

- 1 sheet of isometric graph paper

### Activity 3

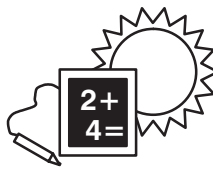
- Thermometer with a range to 50° C
- $\frac{3}{4}$ " cork stopper with hole for thermometer

### Activity 4

- sheet of clear cellophane, about 8 cm square
- 6 cm × 12 cm × 2 cm block of paraffin

### Activity 5

- 3 cm × 3 cm squares of colored acetate (or cellophane): red, green, blue
  - 3 cm × 3 cm square of Polaroid filter
  - 3 cm × 3 cm square of Solarscreen filter
- optional "The Sky at Many Wavelengths" slide set and book

**Activity 6**

- clear hemisphere—plastic or glass—about 15 cm or larger in diameter
- magnetic directional compass

**Activity 7**

- small bar magnet, about 1 cm  $\times$  1 cm  $\times$  4 cm
- small plane mirror, about 3 cm square
- 30 cm or thin nylon thread
- 20 cm of 20 AWG copper wire

optional    pen-sized laser (under \$50 from Metrologic Corp.)

**Activity 8**

- Solar H $\alpha$  photo set

or

- *Sky and Telescope* reprint LE 0 14 “Laboratory exercises in Astronomy—the Rotation of the Sun”